Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Pennsylvania

Year	Coal	Natural Gas [a]	Petroleum							Hydro-electric Power [f,g]	Biomass		Geo-thermal [g]	Solar [g,j]	Retail Electricity Sales	Net Energy [g,k]	Electrical System Energy Losses [l]	Total [g,k]
			Distillate Fuel Oil	HGL [b]	Jet Fuel [c]	Motor Gasoline [d]	Residual Fuel Oil	Other [e]	Total		Wood and Waste [g,h]	Losses and Co-products [i]						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels							Million Kilowatt-hours					Million Kilowatt-hours			
1960	42,584	516	45,772	2,334	1,036	80,104	40,211	24,318	193,776	16	--	--	--	--	39,217	--	--	--
1970	39,433	763	59,530	4,754	9,083	101,718	37,934	29,116	242,135	12	--	--	--	--	75,620	--	--	--
1980	23,445	773	66,364	7,255	10,148	107,925	17,872	27,191	236,754	1	--	--	--	--	99,744	--	--	--
1990	15,854	641	57,522	6,313	12,042	107,467	12,112	30,035	225,492	0	--	--	--	--	114,751	--	--	--
2000	11,250	682	65,971	7,115	19,009	118,034	7,327	30,346	247,802	0	--	--	--	--	133,845	--	--	--
2001	10,863	612	68,279	6,573	18,877	120,458	4,546	34,303	253,035	0	--	--	--	--	135,272	--	--	--
2002	10,724	625	68,043	6,974	17,006	122,851	4,570	30,660	250,104	0	--	--	--	--	139,820	--	--	--
2003	11,066	649	66,980	11,231	17,473	122,575	5,634	31,971	255,863	0	--	--	--	--	140,369	--	--	--
2004	11,099	620	70,797	11,037	16,381	124,468	6,529	33,045	262,256	0	--	--	--	--	143,501	--	--	--
2005	10,580	611	70,491	12,209	16,826	123,808	7,141	34,211	264,687	0	--	--	--	--	148,273	--	--	--
2006	10,219	559	70,597	13,033	16,465	122,702	6,181	33,284	262,262	0	--	--	--	--	146,150	--	--	--
2007	9,981	608	69,379	13,307	15,503	123,970	5,108	31,760	259,026	0	--	--	--	--	151,573	--	--	--
2008	9,338	609	75,885	15,667	14,435	120,652	4,822	28,768	260,229	0	--	--	--	--	150,401	--	--	--
2009	6,211	599	57,747	15,461	12,476	122,112	3,392	28,114	239,302	0	--	--	--	--	143,747	--	--	--
2010	7,682	634	60,835	14,949	12,447	122,653	1,568	R 26,437	R 238,889	0	--	--	--	--	148,964	--	--	--
2011	7,388	659	62,199	15,263	8,201	119,726	1,184	R 23,828	R 230,401	0	--	--	--	--	148,757	--	--	--
2012	7,003	644	61,397	11,718	8,179	118,610	1,423	R 19,614	R 220,941	0	--	--	--	--	144,710	--	--	--
2013	8,027	759	63,076	12,353	7,322	119,409	1,154	R 21,694	R 225,008	0	--	--	--	--	146,254	--	--	--
2014	8,173	856	67,511	12,969	7,005	117,470	659	R 22,734	R 228,348	0	--	--	--	--	146,688	--	--	--
2015	7,642	R 818	64,399	12,244	7,513	R 117,027	428	R 23,605	R 225,216	0	--	--	--	--	146,344	--	--	--
2016	5,857	809	56,168	12,100	12,213	117,887	563	23,011	221,941	0	--	--	--	--	145,328	--	--	--
			Trillion Btu															
1960	1,107.2	533.9	266.6	9.3	5.7	420.8	252.8	145.9	1,101.1	0.2	46.5	NA	NA	NA	133.8	2,922.7	330.9	3,253.6
1970	1,018.8	788.2	346.8	18.0	51.4	534.3	238.5	175.7	1,364.6	0.1	53.2	NA	NA	NA	258.0	3,482.9	624.2	4,107.1
1980	609.4	789.9	386.6	26.8	57.4	566.9	112.4	163.7	1,313.7	(s)	129.2	NA	NA	NA	340.3	3,179.3	817.6	3,996.9
1990	415.0	666.7	335.1	23.4	68.2	564.5	76.1	183.9	1,251.1	0.0	52.5	0.0	0.2	0.4	391.5	2,777.3	858.8	3,636.1
2000	297.5	706.2	383.9	26.8	107.8	615.4	46.1	185.5	1,365.4	0.0	57.7	0.0	0.5	0.4	456.7	2,884.1	1,043.6	3,927.7
2001	285.7	645.7	397.3	24.5	107.0	628.1	28.6	209.6	1,395.1	0.0	52.5	0.0	0.5	0.4	461.5	2,841.5	993.4	3,834.9
2002	282.4	648.9	395.9	26.1	96.4	640.2	28.7	186.9	1,374.3	0.0	47.4	0.0	0.6	0.4	477.1	2,831.1	1,063.9	3,894.9
2003	291.6	674.7	389.8	41.7	99.1	637.8	35.4	195.6	1,399.3	0.0	49.2	0.0	0.8	0.4	478.9	2,894.7	1,049.5	3,944.2
2004	290.4	644.3	411.9	40.9	92.9	647.4	41.0	204.0	1,438.1	0.0	50.4	0.0	0.9	0.4	489.6	2,914.0	1,077.0	3,991.1
2005	265.9	635.7	410.1	44.9	95.4	643.6	44.9	211.0	1,450.0	0.0	52.6	0.0	1.0	0.4	505.9	2,911.5	1,102.5	4,013.9
2006	256.2	580.4	409.7	47.8	93.4	636.9	38.9	204.9	1,431.6	0.0	48.3	0.0	1.1	0.5	498.7	2,816.7	1,068.7	3,885.4
2007	250.3	631.9	401.3	48.9	87.9	639.1	32.1	195.7	1,404.9	0.0	50.2	0.0	1.3	0.5	517.2	2,856.2	1,106.7	3,962.9
2008	232.5	632.6	438.6	57.3	81.8	618.5	30.3	177.5	1,404.1	0.0	51.9	0.0	1.5	0.6	513.2	2,836.3	1,107.6	3,943.9
2009	152.9	623.0	333.8	56.4	70.7	622.9	21.3	173.9	1,279.1	0.0	58.5	0.0	1.8	0.7	490.5	2,606.3	1,022.0	3,628.3
2010	190.9	657.1	351.4	57.3	70.6	622.8	9.9	R 163.6	R 1,275.6	0.0	R 64.6	5.8	2.0	1.3	508.3	R 2,705.7	1,047.4	R 3,753.0
2011	184.6	685.5	359.1	58.5	46.5	606.8	7.4	R 147.1	R 1,225.5	0.0	R 79.0	6.1	2.2	2.3	507.6	R 2,692.9	1,033.4	R 3,726.3
2012	188.9	672.5	354.3	44.9	46.4	600.5	8.9	R 121.8	R 1,176.9	0.0	R 77.3	5.7	2.2	2.8	493.7	R 2,620.1	1,000.6	R 3,620.7
2013	220.3	797.4	363.9	47.4	41.5	604.4	7.3	R 133.1	R 1,197.5	0.0	R 93.0	6.0	2.2	3.0	499.0	R 2,818.4	1,010.5	R 3,828.9
2014	224.9	899.8	389.4	49.7	39.7	594.4	4.1	R 140.1	R 1,217.5	0.0	R 88.9	6.1	2.2	3.2	500.5	R 2,942.9	1,012.5	R 3,955.5
2015	209.6	R 857.2	371.5	47.0	42.6	R 592.2	2.7	R 145.8	R 1,201.7	0.0	R 80.0	5.9	2.2	3.3	499.3	R 2,859.0	997.7	R 3,856.7
2016	160.8	843.7	323.9	46.4	69.2	596.4	3.5	142.3	1,181.8	0.0	77.4	5.8	2.2	3.5	495.9	2,770.9	984.3	3,755.3

[a] Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

[c] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

[d] Beginning in 1993, includes fuel ethanol blended into motor gasoline.

[e] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

[f] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

[g] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

[h] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

[i] Losses and co-products from the production of fuel ethanol.

[j] Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.

[k] Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

[l] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.